

**Notice of Allowability**

Application No.

10/674,508

Examiner

Tarifur R. Chowdhury

Applicant(s)

BAEK ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to election filed on 03/07/05.
2. ☒ The allowed claim(s) is/are 1-17.
3. ☒ The drawings filed on 01 October 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 10/01/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

***Election/Restrictions***

Considering applicant's argument regarding the election of species, the examiner is hereby withdrawing the restriction requirement and thus all of the claims are examined on the merits.

***Status of the claims***

Claims 1-17 are pending.

***Allowable Subject Matter***

1. Claims 1-17 are allowed.
2. The following is an examiner's statement of reasons for allowance:
3. The prior arts of record do not anticipate or render obvious to one skilled in the art a method of fabricating a liquid crystal display device comprising several steps as claimed, more specifically the step of providing a cliché (substrate) or an organic layer on the substrate having a plurality of grooves, each of the grooves having different depths and widths including all other recited steps is considered novel.
4. USPAT 6,233,031 discloses a method for producing a reflector. US 2002/0004182 discloses a method of fabricating microstructures on a substrate wherein first selected regions of the resist layer are exposed to an environment and then developed in the developer solution to expose selected regions of the substrate surface. USPAT 5,527,663 is related to a method of manufacturing a medium having a magnetic pattern wherein the steps includes forming a first groove in a substrate by photoetching and forming a second groove (different in depth) in the first groove or in a portion adjacent to the first groove by photoetching. However, the USPAT 5,527,663 fails to

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teach or suggest anything about liquid crystal as well as the steps such as transferring the resist onto a printing roll to form a plurality of resist portions along a circumference of the printing roll and applying the resist portions onto a surface of an etching layer wherein the applied resist portions form a resist pattern along the surface of the etching layer. US 2004/0125249 and US 2003/0124866 and USPAT 6,759,348 (all of them commonly assigned) are related to a method of fabricating a liquid crystal display device similar to the claimed invention. However, all of these references alone or in combination with any other prior art references fail to teach or suggest the limitation such as the plurality of grooves each having different depths and widths.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R. Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC  
April 14, 2005

  
TARIFUR R. CHOWDHURY  
PRIMARY EXAMINER